



1. No. 09/925,673
Amended, dated September 10, 2003
Reply to Office Action dated July 29, 2003

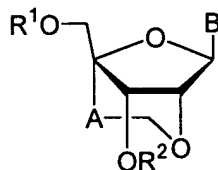
RECEIVED
SEP 16 2003
TECH CENTER 1600/2900

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1. (currently amended) A compound of formula (1):



(1)

wherein:

R¹ and R² are the same or different and are selected from the group consisting of hydrogen atoms, hydroxyl protecting groups, phosphate groups, protected phosphate groups and a group of formula -P(R³)R⁴, wherein R³ and R⁴ are the same or different and are selected from the group consisting of hydroxyl groups, protected hydroxyl groups, mercapto groups, protected mercapto groups, amino groups, alkoxy groups having from 1 to 4 carbon atoms, alkylthio groups having from 1 to 4 carbon atoms, cyanoalkoxy groups having from 1 to 5 carbon atoms and amino groups substituted by an alkyl group having from 1 to 4 carbon atoms;

A represents an alkylene group having from 1 to 4 carbon atoms;
and

a1 B is selected from the group consisting of unsubstituted purin-9-yl groups, unsubstituted 2-oxo-pyrimidin-1-yl groups, and substituted purin-9-yl groups and substituted 2-oxo-pyrimidin-1-yl groups having at least one substituent α selected from the group consisting of hydroxyl groups, protected hydroxyl groups, alkoxy groups having from 1 to 4 carbon atoms, mercapto groups, protected mercapto groups, alkylthio groups having from 1 to 4 carbon atoms, amino groups, protected amino groups, amino groups substituted by an alkyl group having from 1 to 4 carbon atoms, alkyl groups having from 1 to 4 carbon atoms and halogen atoms;
or a salt thereof.

Claim 2. (original) The compound according to Claim 1 or a salt thereof, wherein R^1 is selected from the group consisting of hydrogen atoms, aliphatic acyl groups, aromatic acyl groups, methyl groups substituted by from 1 to 3 aryl groups, methyl groups substituted by from 1 to 3 aryl groups the aryl ring of which is substituted by a substituent selected from the group consisting of lower alkyl, lower alkoxy, halogen and cyano groups, and silyl groups.

Claim 3. (original) The compound according to Claim 1 or a salt thereof, wherein R^1 is selected from the group consisting of hydrogen atoms, acetyl groups, benzoyl groups, benzyl groups, p-

methoxybenzyl groups, dimethoxytrityl groups, mono-methoxytrityl groups and tert-butyldiphenylsilyl groups.

Claim 4. (original) The compound according to Claim 1 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, aliphatic acyl groups, aromatic acyl groups, methyl groups substituted by from 1 to 3 aryl groups, methyl groups substituted by from 1 to 3 aryl groups the aryl ring of which is substituted by a substituent selected from the group consisting of lower alkyl, lower alkoxy, halogen and cyano groups, silyl groups, phosphoramidite groups, phosphonyl groups, phosphate groups and protected phosphate groups.

Claim 5. (original) The compound according to Claim 2 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, aliphatic acyl groups, aromatic acyl groups, methyl groups substituted by from 1 to 3 aryl groups, methyl groups substituted by from 1 to 3 aryl groups the aryl ring of which is substituted by a substituent selected from the group consisting of lower alkyl, lower alkoxy, halogen and cyano groups, silyl groups, phosphoramidite groups, phosphonyl groups, phosphate groups and protected phosphate groups.

Claim 6. (original) The compound according to Claim 3 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, aliphatic acyl groups, aromatic acyl groups,

methyl groups substituted by from 1 to 3 aryl groups, methyl groups substituted by from 1 to 3 aryl groups the aryl ring of which is substituted by a substituent selected from the group consisting of lower alkyl, lower alkoxy, halogen and cyano groups, silyl groups, phosphoramidite groups, phosphonyl groups, phosphate groups and protected phosphate groups.

a' **Claim 7. (original)** The compound according to Claim 1 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, acetyl groups, benzoyl groups, benzyl groups, p-methoxybenzyl groups, tert-butyldiphenylsilyl groups, $-P(OC_2H_4CN)(NCH(CH_3)_2)$, $-P(OCH_3)(NCH(CH_3)_2)$, phosphonyl groups, 2-chlorophenyl phosphate groups and 4-chlorophenyl phosphate groups.

Claim 8. (original) The compound according to Claim 2 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, acetyl groups, benzoyl groups, benzyl groups, p-methoxybenzyl groups, tert-butyldiphenylsilyl groups, $-P(OC_2H_4CN)(NCH(CH_3)_2)$, $-P(OCH_3)(NCH(CH_3)_2)$, phosphonyl groups, 2-chlorophenyl phosphate groups and 4-chlorophenyl phosphate groups.

Claim 9. (original) The compound according to Claim 3 or a salt thereof, wherein R^2 is selected from the group consisting of hydrogen atoms, acetyl groups, benzoyl groups, benzyl groups,

p-methoxybenzyl groups, tert-butyldiphenylsilyl group,
-P(OC₂H₄CN)(NCH(CH₃)₂), -P(OCH₃)(NCH(CH₃)₂), phosphonyl groups,
2-chlorophenyl phosphate groups and 4-chlorophenyl phosphate
groups.

Claim 10. (original) The compound according to Claim 1 or a
salt thereof, wherein A is a methylene group.

a1 **Claim 11. (original)** The compound according to Claim 2 or a
salt thereof, wherein A is a methylene group.

Claim 12. (original) The compound according to Claim 3 or a
salt thereof, wherein A is a methylene group.

Claim 13. (original) The compound according to Claim 4 or a
salt thereof, wherein A is a methylene group.

Claim 14. (original) The compound according to Claim 5 or a
salt thereof, wherein A is a methylene group.

Claim 15. (original) The compound according to Claim 6 or a
salt thereof, wherein A is a methylene group.

Claim 16. (original) The compound according to Claim 7 or a
salt thereof, wherein A is a methylene group.

Claim 17. (original) The compound according to Claim 8 or a salt thereof, wherein A is a methylene group.

Claim 18. (original) The compound according to Claim 9 or a salt thereof, wherein A is a methylene group.

Q1 **Claim 19. (currently amended)** The compound according to Claim 1 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl, 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl ~~(i.e. cytosinyl)~~[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-

oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl, 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

21 **Claim 20. (currently amended)** The compound according to Claim 2 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-

hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 21. (currently amended)** The compound according to Claim 3 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-

hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl groups, the amino group of which is protected.

a1 **Claim 22. (currently amended)** The compound according to Claim 4 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

91 **Claim 23. (currently amended)** The compound according to Claim 5 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 24. (currently amended)** The compound according to Claim 6 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

al **Claim 25. (currently amended)** The compound according to Claim 7 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[6]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

ai **Claim 26. (currently amended)** The compound according to Claim 8 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

ai **Claim 27. (currently amended)** The compound according to Claim 9 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-

pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 28. (currently amended)** The compound according to Claim 10 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-

1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 29. (currently amended)** The compound according to Claim 11 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxypyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-

yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

ai **Claim 30. (currently amended)** The compound according to Claim 12 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-

1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 31. (currently amended)** The compound according to Claim 13 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxypyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-

yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

Q1 **Claim 32. (currently amended)** The compound according to Claim 14 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxypyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-

yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

Claim 33. (currently amended) The compound according to Claim 15 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl, 2-amino-6-bromopurin-9-yl, the amino group of which is protected, 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-

amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 34. (currently amended)** The compound according to Claim 16 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-

amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 35. (currently amended)** The compound according to Claim 17 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-

amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

21 **Claim 36. (currently amended)** The compound according to Claim 18 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diaminopurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloropurin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-

amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

a1 **Claim 37. (original)** The compound according to Claim 1 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 38. (original) The compound according to Claim 2 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 39. (original) The compound according to Claim 3 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 40. (original) The compound according to Claim 4 or a salt thereof, wherein B is selected from the group consisting

of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

01 **Claim 41. (original)** The compound according to Claim 5 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 42. (original) The compound according to Claim 6 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 43. (original) The compound according to Claim 7 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 44. (original) The compound according to Claim 8 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Q1 **Claim 45. (original)** The compound according to Claim 9 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 46. (original) The compound according to Claim 10 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 47. (original) The compound according to Claim 11 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl,

cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 48. (original) The compound according to Claim 12 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeniny, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaniny, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 49. (original) The compound according to Claim 13 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeniny, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaniny, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 50. (original) The compound according to Claim 14 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeniny, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaniny, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 51. (original) The compound according to Claim 15 or a salt thereof, wherein B is selected from the group consisting

of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

a1 **Claim 52. (original)** The compound according to Claim 16 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 53. (original) The compound according to Claim 17 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 54. (original) The compound according to Claim 18 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyrimidin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

al

Claim 55. (original) A compound or a salt thereof selected from the group consisting of

2'-O,4'-C-ethyleneguanosine,
2'-O,4'-C-ethyleneadenosine,
3',5'-di-O-benzyl-2'-O,4'-C-ethylene-6-N-benzoyladenosine,
3',5'-di-O-benzyl-2'-O,4'-C-ethylene-2-N-isobutyrylguanosine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-6-N-benzoyladenosine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-2-N-isobutyrylguanosine,
2'-O,4'-C-ethylene-2-N-isobutyrylguanosine,
2'-O,4'-C-ethylene-6-N-benzoyladenosine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-6-N-benzoyladenosine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-2-N-isobutyrylguanosine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite,
2'-O,4'-C-ethyleneuridine,
2'-O,4'-C-ethylene-5-methyluridine,
2'-O,4'-C-ethylenecytidine,
2'-O,4'-C-ethylene-5-methylcytidine,
3',5'-di-O-benzyl-2'-O,4'-C-ethyleneuridine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethyleneuridine,
3',5'-di-O-benzyl-2'-O,4'-C-ethylene-5-methyluridine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-5-methyluridine,
3',5'-di-O-benzyl-2'-O,4'-C-ethylene-4-N-benzoylcytidine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoylcytidine,
3',5'-di-O-benzyl-2'-O,4'-C-ethylene-4-N-benzoyl-5-methylcytidine,

Q1
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoyl-5-methylcytidine,
2'-O,4'-C-ethylene-4-N-benzoylcytidine,
2'-O,4'-C-ethylene-4-N-benzoyl-5-methylcytidine,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-uridine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-5-methyluridine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite,
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoylcytidine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite, and
5'-O-dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoyl-5-methylcytidine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite.

Claim 56. (original) 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-5-methyluridine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

Claim 57. (original) 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-6-N-benzoyladenosine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

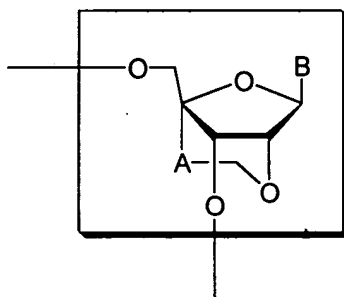
Claim 58. (original) 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-2-N-isobutyrylguanosine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

Claim 59. (original) 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-uridine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

Claim 60. (original) 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoylcytidine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

al **Claim 61. (original)** 5'-O-Dimethoxytrityl-2'-O,4'-C-ethylene-4-N-benzoyl-5-methylcytidine-3'-O-(2-cyanoethyl N,N-diisopropyl)phosphoramidite or a salt thereof.

Claim 62. (original) An oligonucleotide analogue comprising two or more nucleoside units wherein at least one of said nucleoside units is a structure of the formula (2):



(2)

wherein:

A represents an alkylene group having from 1 to 4 carbon atoms;
and

a1 B is selected from the group consisting of an unsubstituted purin-9-yl group, an unsubstituted 2-oxo-pyrimidin-1-yl group, a purin-9-yl group substituted with at least one substituent α and a 2-oxo-pyrimidin-1-yl group substituted with at least one substituent α , said substituent α being selected from the group consisting of an unprotected hydroxyl group, a protected hydroxyl group, an alkoxy group having from 1 to 4 carbon atoms, an unprotected mercapto group, a protected mercapto group, an alkylthio group having from 1 to 4 carbon atoms, an unprotected amino group, a protected amino group, an amino group substituted by an alkyl group having from 1 to 4 carbon atoms, an alkyl group having from 1 to 4 carbon atoms and a halogen atom; or a salt thereof.

Claim 63. (original) The oligonucleotide analogue according to claim 62 or a salt thereof, which comprises up to 100 nucleoside units and wherein nucleoside units are bonded to each other through a phosphodiester bond or a phosphorothioate bond.

Claim 64. (original) The oligonucleotide analogue according to claim 62 or a salt thereof which comprises 2 to 50 nucleoside units; and when said oligonucleotide analogue contains two or

more nucleoside units of the structure of said formula (2), said nucleoside units of the structure of formula (2) are the same or different, and wherein said salt is a pharmaceutically acceptable salt.

a' **Claim 65. (original)** The oligonucleotide analogue according to claim 64 or a salt thereof which comprises 10 to 30 nucleoside units.

Claim 66. (original) The oligonucleotide analogue according to claim 62 or a salt thereof, wherein said nucleoside units are bonded to each other through a phosphoric acid diester bond or a phosphorothioate bond.

Claim 67. (original) The oligonucleotide analogue according to Claim 62 or a salt thereof, wherein A is a methylene group.

Claim 68. (currently amended) The oligonucleotide analogue according to Claim 62 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ;

6-aminopurin-9-yl, the amino group of which is protected, 2,6-diamino-purin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloro-purin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-

pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

Claim 69. (currently amended) The oligonucleotide analogue according to Claim 67 or a salt thereof, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diamino-purin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloro-purin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the

amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

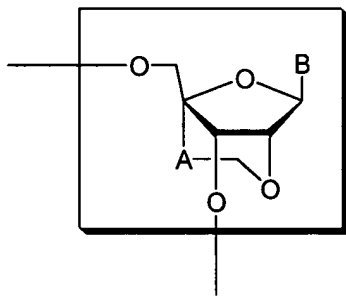
ai

Claim 70. (original) The oligonucleotide analogue according to Claim 62 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyridin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 71. (original) The oligonucleotide analogue according to Claim 67 or a salt thereof, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl,

2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyridin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

91 **Claim 72. (original)** A pharmaceutical composition comprising a pharmaceutically effective amount of a pharmacologically active compound together with a carrier therefor, wherein said pharmacologically active compound is an oligonucleotide analogue comprising two or more nucleoside units, wherein at least one of said nucleoside units is a structure of the formula (2):



(2)

wherein:

A represents an alkylene group having from 1 to 4 carbon atoms;
and

ai B is selected from the group consisting of an unsubstituted purin-9-yl group, an unsubstituted 2-oxo-pyrimidin-1-yl group, a purin-9-yl group substituted with at least one substituent α and a 2-oxo-pyrimidin-1-yl group substituted with at least one substituent α , said substituent α being selected from the group consisting of an unprotected hydroxyl group, a protected hydroxyl group, an alkoxy group having from 1 to 4 carbon atoms, an unprotected mercapto group, a protected mercapto group, an alkylthio group having from 1 to 4 carbon atoms, an unprotected amino group, a protected amino group, an amino group substituted by an alkyl group having from 1 to 4 carbon atoms, an alkyl group having from 1 to 4 carbon atoms and a halogen atom; or a pharmacologically acceptable salt thereof.

Claim 73. (original) A pharmaceutical composition according to Claim 72, wherein A is a methylene group.

Claim 74. (currently amended) A pharmaceutical composition according to Claim 72, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diamino-purin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl[[,]] ; 2-amino-6-

chloropurin-9-yl, the amino group of which is protected[[,]] ;
2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl,
the amino group of which is protected[[,]] ; 2-amino-6-
bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino
group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-
yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which
is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group
and hydroxyl group of which are protected[[,]] ; 6-amino-2-
methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl, 6-amino-2-
fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-
dichloro-purin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-
amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the
amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-
pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the
amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-
pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-
oxo-4-mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-
1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-
amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-
oxo-pyrimidin-1-yl group, the amino group of which is protected.

an **Claim 75. (currently amended)** A pharmaceutical composition according to Claim 73, wherein B is selected from the group consisting of 6-aminopurin-9-yl[[,]] ; 6-aminopurin-9-yl, the amino group of which is protected[[,]] ; 2,6-diamino-purin-9-yl[[,]] ; 2-amino-6-chloropurin-9-yl, 2-amino-6-chloropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-fluoropurin-9-yl[[,]] ; 2-amino-6-fluoropurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-bromopurin-9-yl[[,]] ; 2-amino-6-bromopurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group of which is protected[[,]] ; 2-amino-6-hydroxypurin-9-yl, the amino group and hydroxyl group of which are protected[[,]] ; 6-amino-2-methoxypurin-9-yl[[,]] ; 6-amino-2-chloropurin-9-yl[[,]] ; 6-amino-2-fluoropurin-9-yl[[,]] ; 2,6-dimethoxypurin-9-yl[[,]] ; 2,6-dichloro-purin-9-yl[[,]] ; 6-mercaptopurin-9-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl[[,]] ; 2-oxo-4-amino-5-fluoro-pyrimidin-1-yl, the amino group of which is protected[[,]] ; 4-amino-2-oxo-5-chloro-pyrimidin-1-yl[[,]] ; 2-oxo-4-methoxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-

mercapto-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-pyrimidin-1-yl[[,]] ; 2-oxo-4-hydroxy-5-methylpyrimidin-1-yl[[,]] ; 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group and 4-amino-5-methyl-2-oxo-pyrimidin-1-yl group, the amino group of which is protected.

AI **Claim 76 (original)** A pharmaceutical composition according to Claim 72, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyridin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claim 77. (original) A pharmaceutical composition according to Claim 73, wherein B is selected from the group consisting of 6-benzoylamino-purin-9-yl, adeninyl, 2-isobutyrylamino-6-hydroxypurin-9-yl, guaninyl, 2-oxo-4-benzoylamino-pyrimidin-1-yl, cytosinyl, 2-oxo-5-methyl-4-benzoylamino-pyridin-1-yl, 5-methylcytosinyl, uraciny and thyminy groups.

Claims 78 to 102. (canceled)